MAJOR TRAFFIC ACCIDENTS
STATE OF HAWAII
1985

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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Prepared by the Traffic Engineering Section

Traffic Branch

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SUMMARY OF MAJOR TRAFFIC ACCIDENTS

Accidents

Major traffic accidents in the State of Hawaii increased 10.9 per cent, from 17,657 in 1984 to 19,577 in 1985. A major traffic accident is an accident in which the total property damage involving a motor vehicle on a public highway amounted to at least $300.00 or one in which a person sustained injury as a result of the accident.

Friday was the worst day in the week for accidents. It accounted for about 17 per cent of all accidents. Sunday was the safest day for all accidents. It accounted for the fewest accidents in the week. However, the majority of the fatal accidents occurred on a Sunday.

The months of July and August accounted for nearly 19 per cent of all accidents in 1985. March and June, each with 11 per cent, were the worst months for fatal accidents.

Most of the accidents, approximately 63 per cent, occurred during the daylight hours. However, almost 70 per cent of the fatal accidents occurred at night.

In all accidents involving collisions between two or more vehicles, 36 per cent occurred at intersections. In fatal accidents, 31 per cent occurred at intersection locations.

For accidents involving pedestrians, 61 per cent of all accidents and 90 per cent of the fatal accidents involved vehicles traveling straight ahead. At non-intersection locations, it was 85 per cent for all accidents and 70 per cent for fatal accidents.

Drivers

Age group 15-24 accounted for 31 per cent of the drivers involved in all accidents and 36 per cent of those involved in fatal accidents. Also, the driver involvement index (per cent involved in accidents versus per cent registered) in all accidents was highest for drivers 19 years of age and under. In fatal accidents, the driver involvement index was highest for drivers 20-24 years of age.

The number of drinking drivers involved in all accidents has been declining since 1979. There was a decline of 10 per cent in 1982 from the previous year, an 11 per cent decrease in 1983, 6 per cent decrease in 1984, and 15 per cent decrease in 1985.

The number of drinking drivers involved in fatal accidents dropped for the second consecutive year. After recording a high of 93 drinking drivers involved in fatal accidents in 1983, the number dropped in 1984 to 74, a decrease of 20 per cent from the previous year. There were 69 drinking drivers involved in fatal accidents in 1985.

Motor Vehicles

The 35,181 motor vehicles involved in all accidents in 1985 is a new high for the State. It represents an 11.7 per cent increase over the number of motor vehicles involved in the previous 12-month period.

Busses continue to show a high involvement index (per cent involved in accidents versus per cent registered) of 2.5 times more than the other types of motor vehicles involved in all accidents and 4 times more than those involved, except for motorcycles, in fatal accidents. The index for motorcycles involved in fatal accidents was 4.79.

Persons Killed and Injured

The State Department of Transportation adopted the "thirty-day rule" for reporting traffic fatalities beginning with the 1979 statistical data. The rule, which was established by the U. S. Department of Transportation, states that for statistical purposes, only deaths occurring within thirty days of the accidents will be reported as fatalities.

A total of 126 persons were killed in traffic accidents in the State of Hawaii in 1985. This is the lowest number reported killed in twenty years.

The number of persons injured increased slightly to about 2 per cent, from 12,390 in 1984 to 12,613 in 1985.

There were 20 pedestrians killed in 1985 while 24 pedestrians were killed in the previous year. Approximately half of the pedestrians killed in each of the past two years were 65 years of age or older.

The number of pedestrians injured were about the same in 1984 and 1985, 707 and 710 respectively. Of the pedestrians injured in 1985, 29 per cent were 14 years or younger and 11 per cent were 65 years or older.

Death Rate

The fatality, or death, rate (per one hundred million vehicle miles traveled) for the State was 2.10 in 1984 and 1.90 in 1985.

TABLE 1. TRAFFIC ACCIDENT STATISTICS, STATE OF HAWAII, 1985

	ACCIDENTS				PERSONS	
JURISDICTION	TOTAL	FATAL	NON-FATAL	PROPERTY DAMAGE	KILLED	INJURED
OAHU	14,997	80	6,447	8,470	86	9,158
HAWAII	2,368	22	1,221	1,125	23	1,845
MAUI	1,418	8	714	696	9	1,098
KAUAI	794	8	345	441	8	512
STATE	19,577	118	8,727	10,732	126	12,613

FIG. 1. NUMBER OF ACCIDENTS IN THE STATE OF HAWAII, 1976-1985

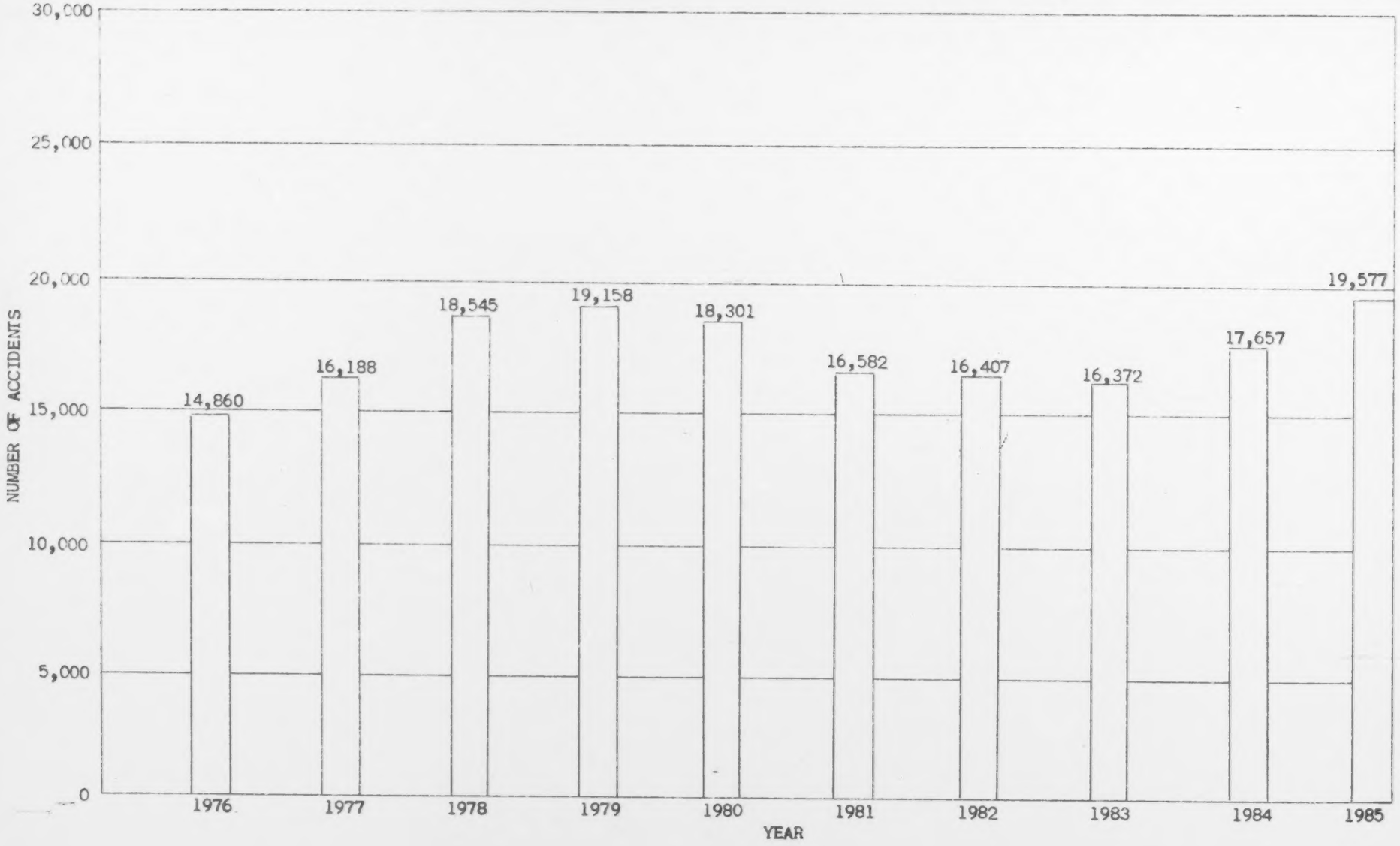


FIG. 2. NUMBER OF FATAL ACCIDENTS IN THE STATE OF HAWAII, 1976-1985

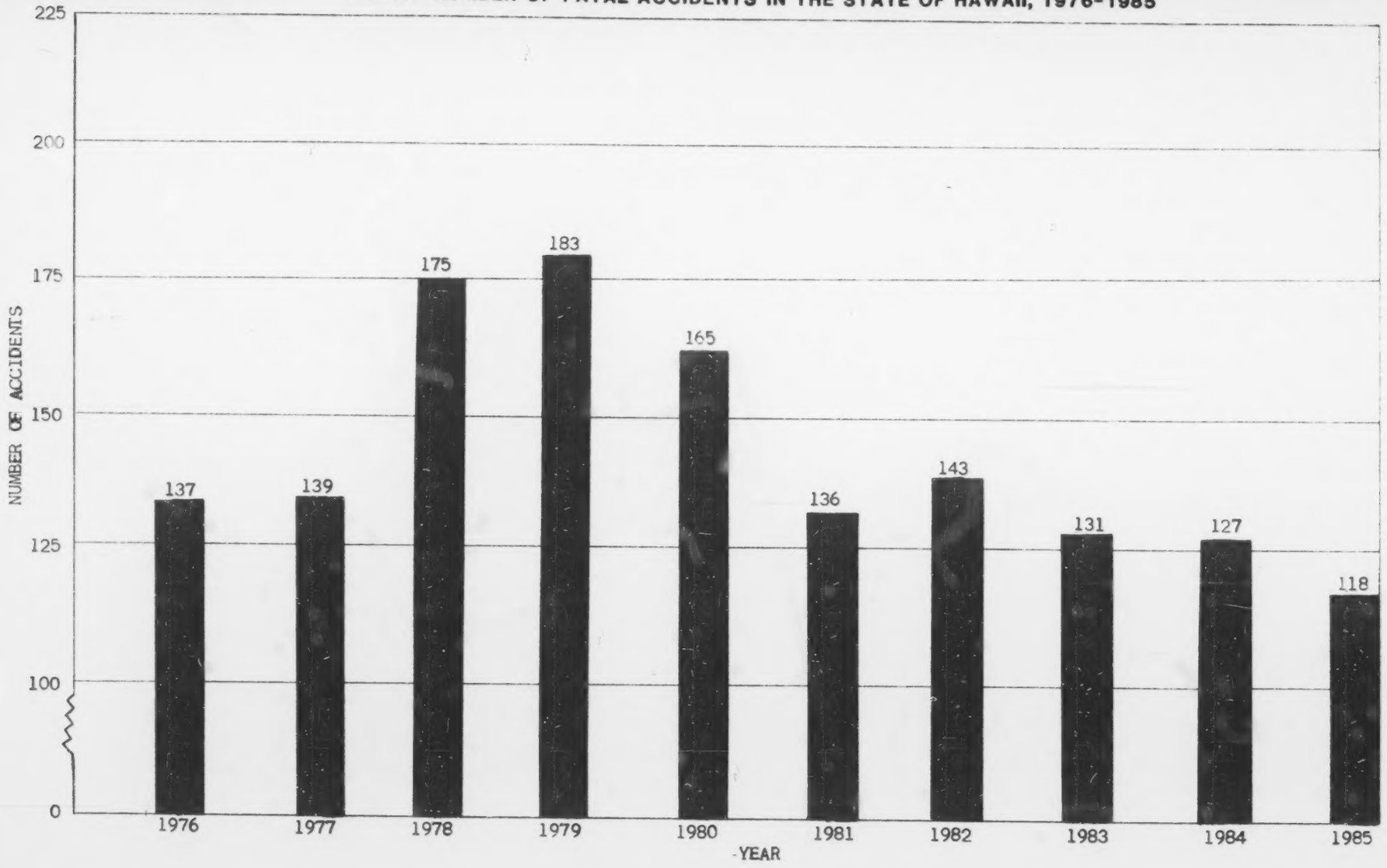


FIG. 3. NUMBER OF NON-FATAL INJURY ACCIDENTS IN THE STATE OF HAWAII, 1976-1985

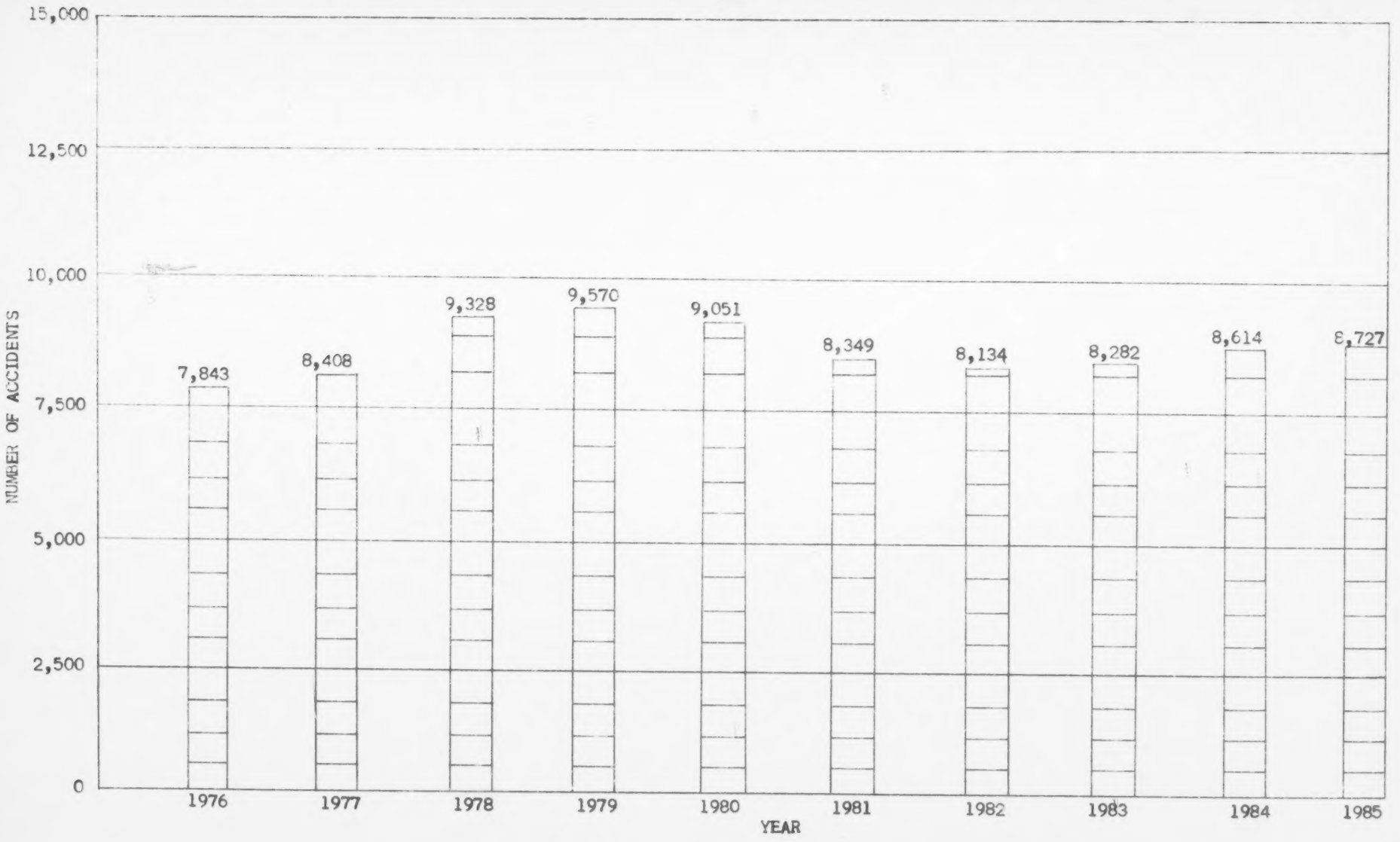


FIG. 4. NUMBER OF PERSONS KILLED IN THE STATE OF HAWAII, 1976-1985

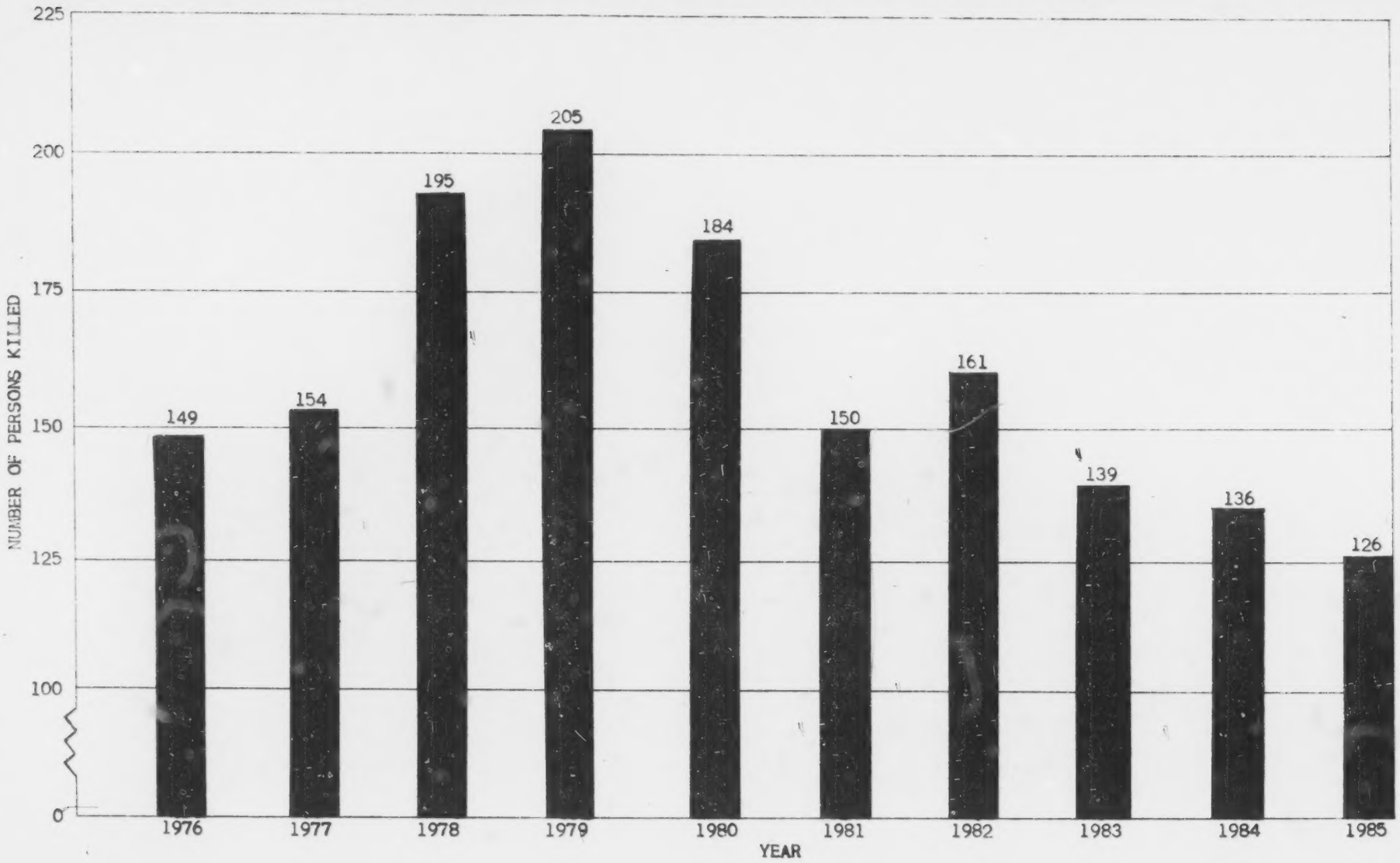


FIG. 5. NUMBER OF PERSONS INJURED IN THE STATE OF HAWAII, 1976-1985

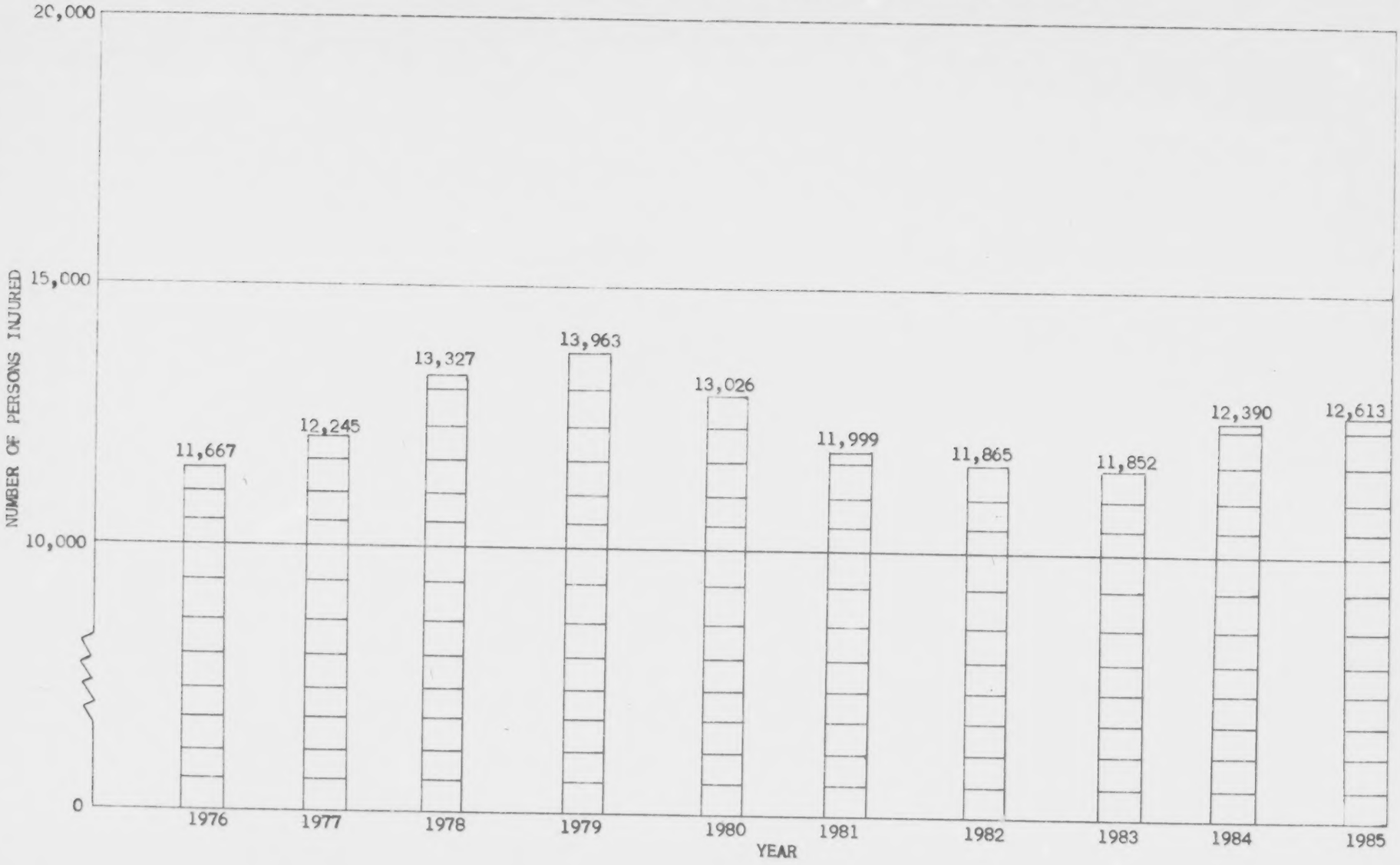


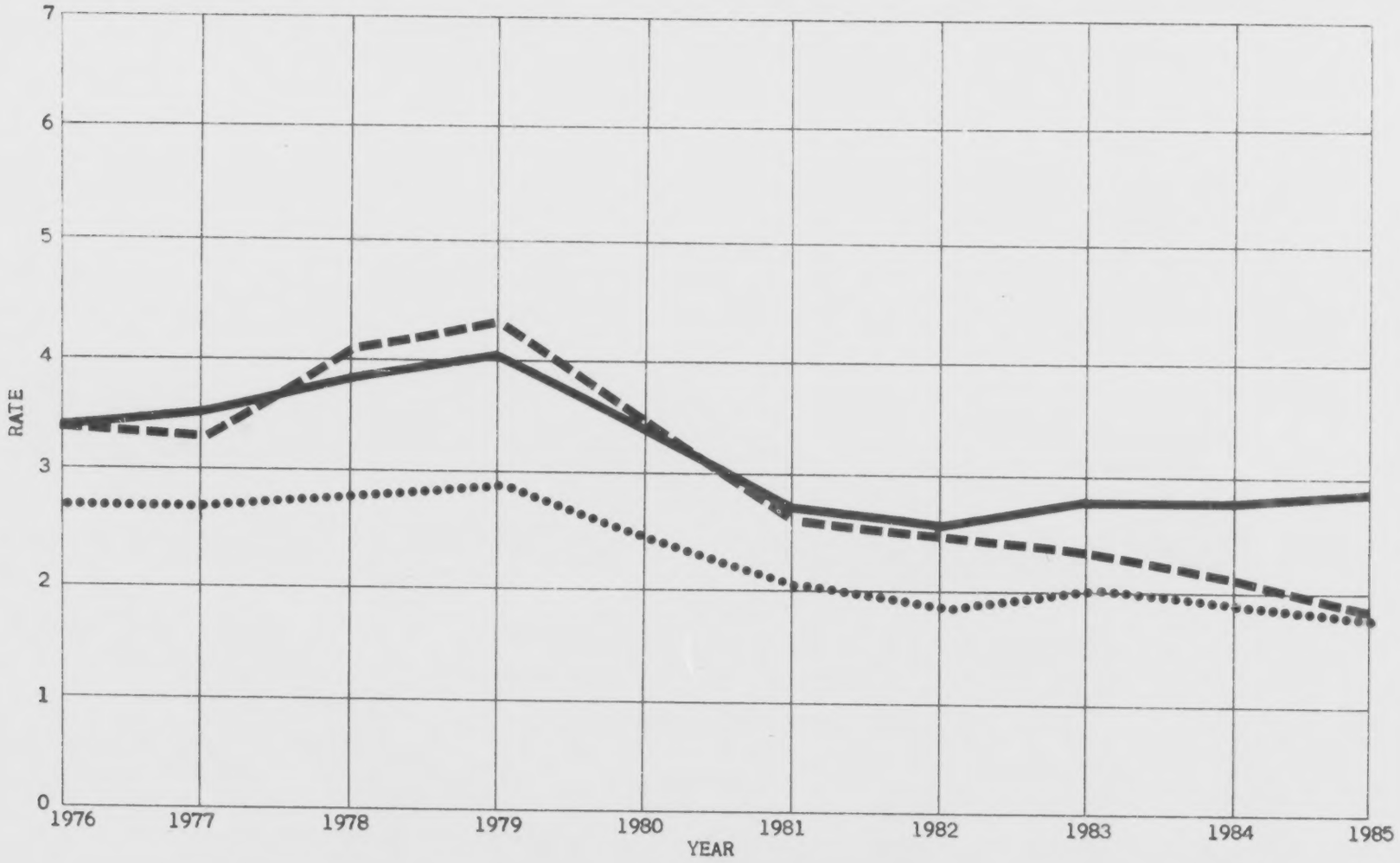
TABLE 2. TRAFFIC RELATED DATA, STATE OF HAWAII, 1985

JURISDICTION	VEHICLE MILES TRAVELED	MOTOR VEHICLES REGISTERED *	DRIVERS REGISTERED *	RESIDENT POPULATION **
OAHU	4,773,600,000	544,976	441,278	814,600
HAWAII	853,500,000	85,806	68,177	109,200
MAUI	727,900,000	80,593	55,309	85,300
KAUAI	406,500,000	37,659	29,188	44,800
STATE	6,761,500,000	749,034	593,952	1,053,900

* Source: Department of Data Systems, City & County of Honolulu

** Source: Department of Planning & Economic Development

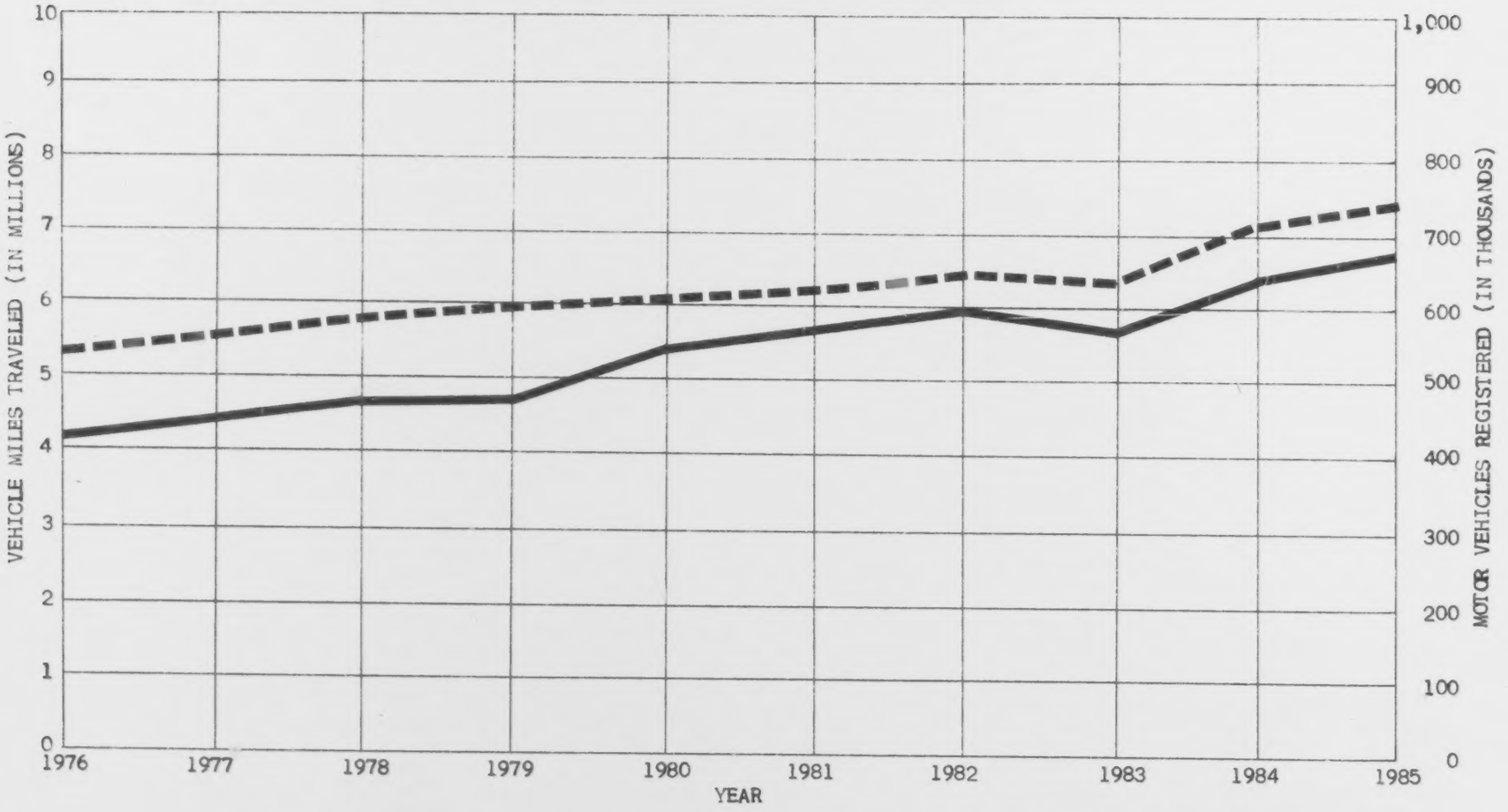
FIG. 6. TRAFFIC ACCIDENT, FATALITY, AND NON-FATAL INJURY RATES, STATE OF HAWAII, 1976-1985



Note: Beginning in 1980, rates are computed on new formula base for vehicle miles traveled

ACCIDENT RATE PER MILLION VEHICLE MILES
FATALITY RATE PER 100 MILLION VEHICLE MILES
NON-FATAL INJURY RATE PER MILLION VEHICLE MILES

FIG. 7. VEHICLE MILES TRAVELED AND MOTOR VEHICLES REGISTERED, STATE OF HAWAII, 1976-1985



Note: Beginning in 1980, rates are computed on new formula base for vehicle miles traveled

FIG. 8. RESIDENT POPULATION AND DRIVERS REGISTERED, STATE OF HAWAII, 1976-1985

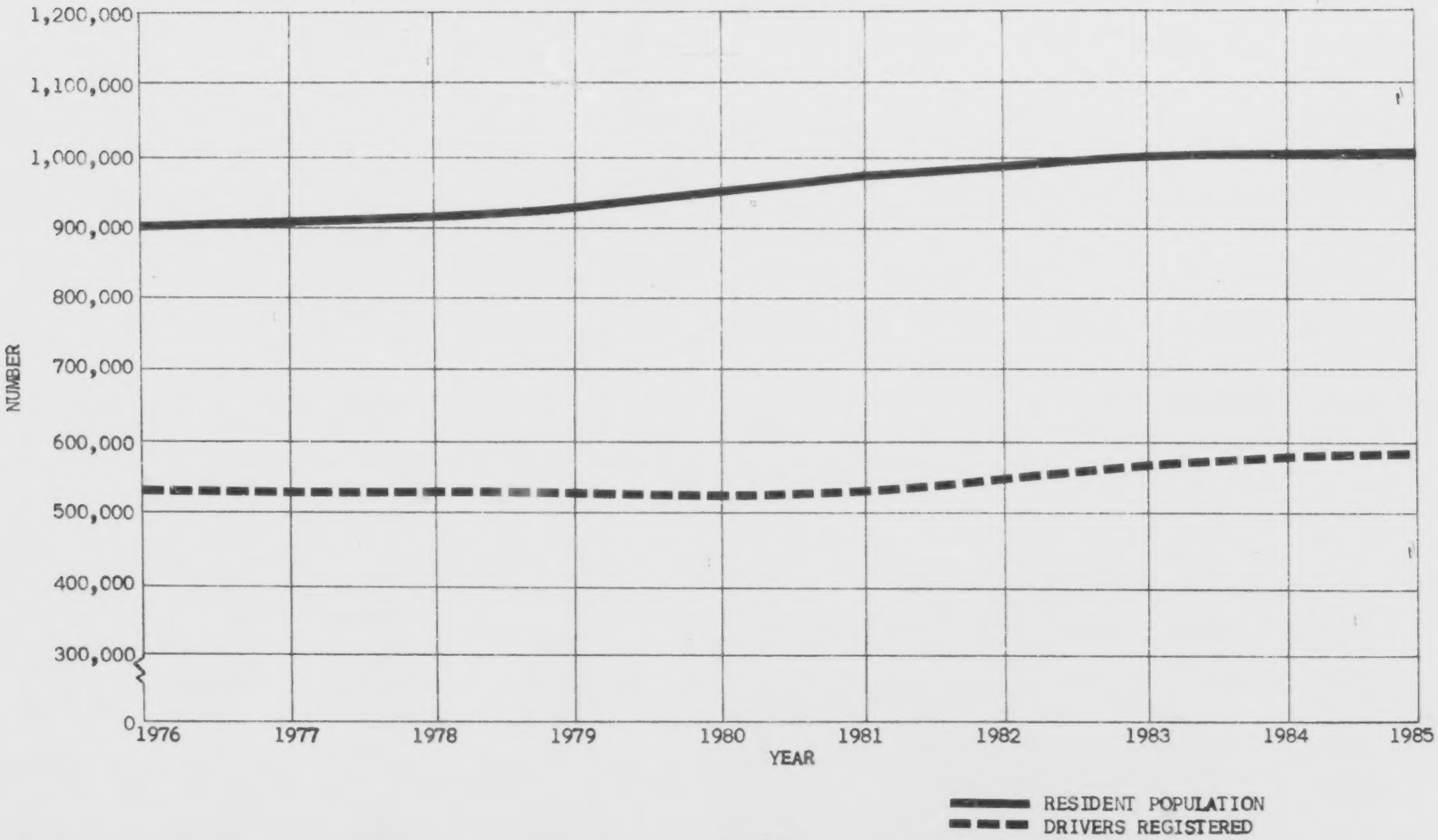


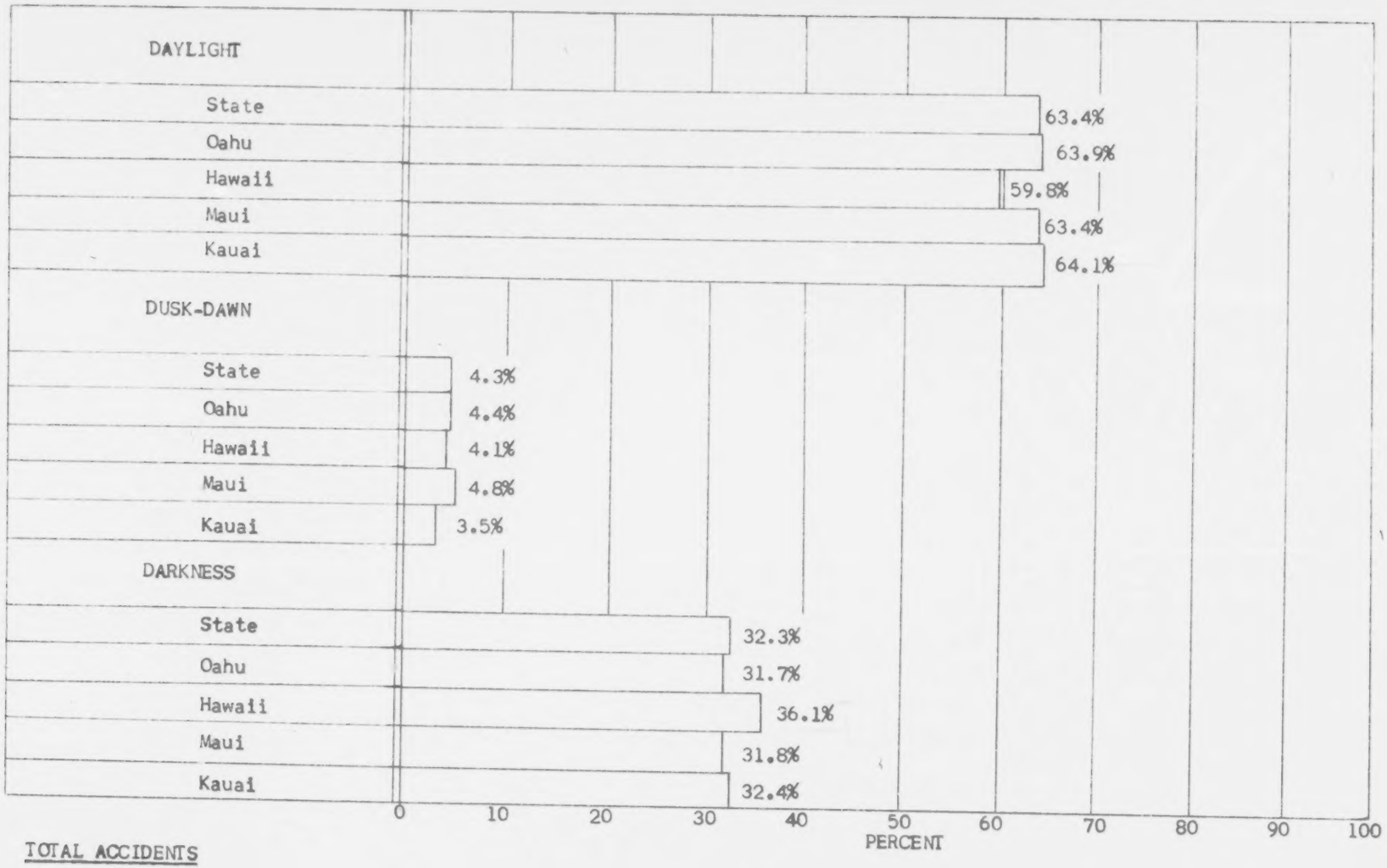
TABLE 3. ACCIDENTS BY DAY OF WEEK, STATE OF HAWAII, 1985

DAY OF WEEK	ALL ACCIDENTS		FATAL ACCIDENTS	
	NUMBER	PERCENT	NUMBER	PERCENT
MONDAY	2,708	13.8%	14	11.9%
TUESDAY	2,674	13.7%	12	10.2%
WEDNESDAY	2,861	14.6%	17	14.4%
THURSDAY	2,652	13.5%	12	10.2%
FRIDAY	3,261	16.7%	17	14.4%
SATURDAY	3,050	15.6%	22	18.6%
SUNDAY	2,371	12.1%	24	20.3%
TOTALS	19,577	100.0%	118	100.0%

TABLE 4. ACCIDENTS BY MONTH, STATE OF HAWAII, 1985

MONTH	ALL ACCIDENTS		FATAL ACCIDENTS	
	NUMBER	PERCENT	NUMBER	PERCENT
JANUARY	1,472	7.5%	4	3.3%
FEBRUARY	1,474	7.5%	7	5.9%
MARCH	1,693	8.6%	13	11.0%
APRIL	1,632	8.3%	8	6.8%
MAY	1,721	8.8%	10	8.5%
JUNE	1,677	8.6%	13	11.0%
JULY	1,860	9.5%	12	10.2%
AUGUST	1,776	9.1%	12	10.2%
SEPTEMBER	1,650	8.4%	10	8.5%
OCTOBER	1,498	7.7%	11	9.3%
NOVEMBER	1,503	7.7%	8	6.8%
DECEMBER	1,621	8.3%	10	8.5%
TOTALS	19,577	100.0%	118	100.0%

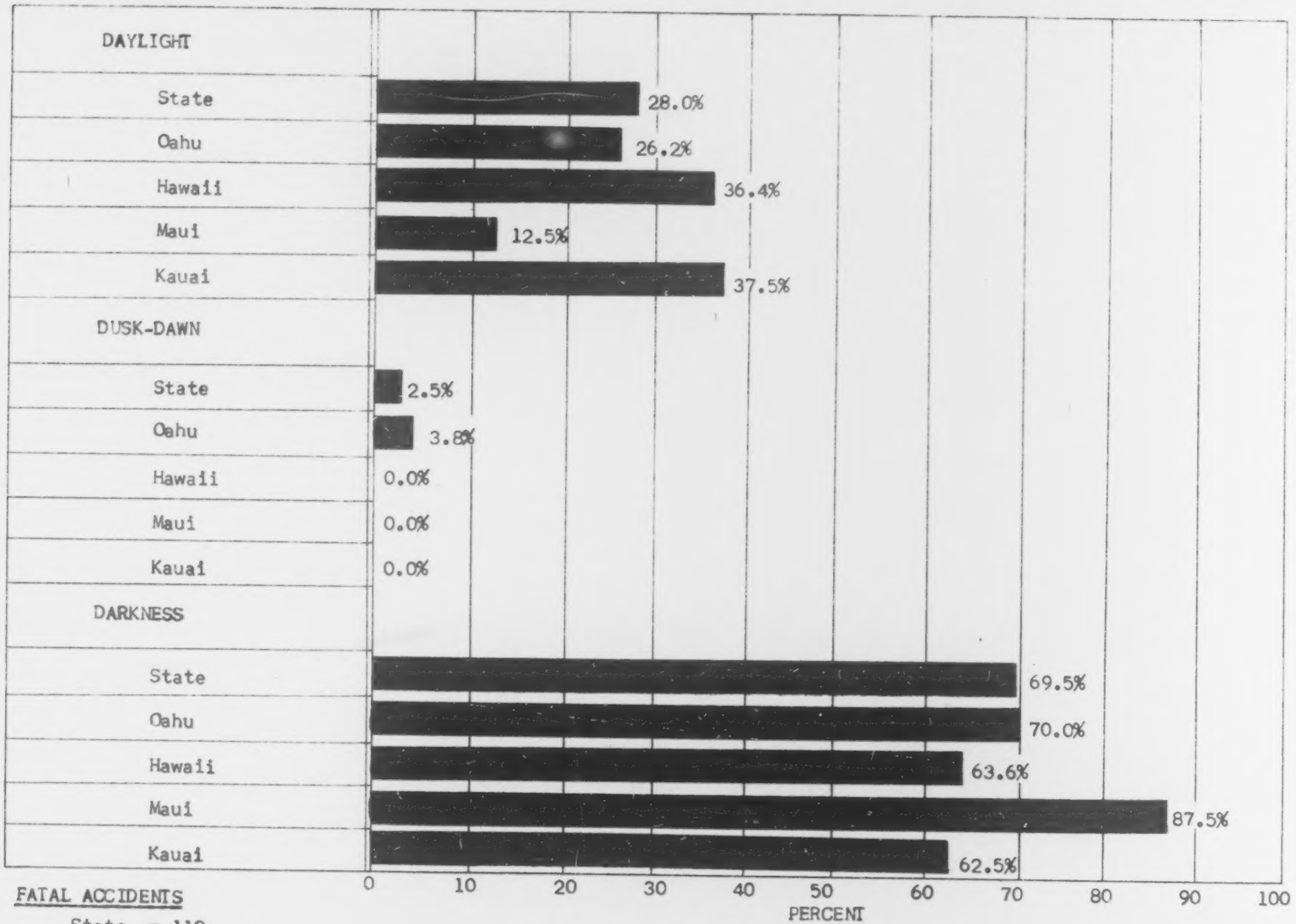
FIG. 9. DISTRIBUTION OF ACCIDENTS BY LIGHT CONDITION, 1985



TOTAL ACCIDENTS

State = 19,577
Oahu = 14,997
Hawaii = 2,368
Maui = 1,418
Kauai = 794

FIG. 10. DISTRIBUTION OF FATAL ACCIDENTS BY LIGHT CONDITION, 1985



FATAL ACCIDENTS

State = 118
Oahu = 80
Hawaii = 22
Maui = 8
Kauai = 8

TABLE 5. DRIVERS INVOLVED IN ALL ACCIDENTS, 1976-1985

(Excluding Drivers of Properly Parked Vehicles)

YEAR	STATE	OAHU	HAWAII	MAUI	KAUAI
1976	23,916	18,350	2,680	1,915	971
1977	26,380	20,237	2,839	2,362	942
1978	30,065	22,927	3,152	3,825	1,161
1979	30,523	23,201	3,160	2,960	1,202
1980	28,504	21,405	3,090	2,757	1,252
1981	25,903	19,315	2,966	2,332	1,290
1982	25,728	19,303	2,987	2,283	1,155
1983	25,969	19,703	2,892	2,243	1,131
1984	28,701	21,876	3,393	2,218	1,214
1985	32,357	25,140	3,611	2,324	1,282

TABLE 6. DRIVERS INVOLVED IN FATAL ACCIDENTS, 1976-1985

(Excluding Drivers of Properly Parked Vehicles)

YEAR	STATE	OAHU	HAWAII	MAUI	KAUAI
1976	190	126	29	28	7
1977	196	115	41	32	8
1978	244	139	50	37	18
1979	251	143	47	47	14
1980	241	152	38	29	22
1981	189	117	39	19	14
1982	200	120	45	26	9
1983	180	111	32	25	12
1984	194	133	27	21	13
1985	165	111	31	12	11

FIG. 11. DISTRIBUTION OF DRIVER INVOLVEMENT BY AGE GROUP , STATE OF HAWAII, 1985

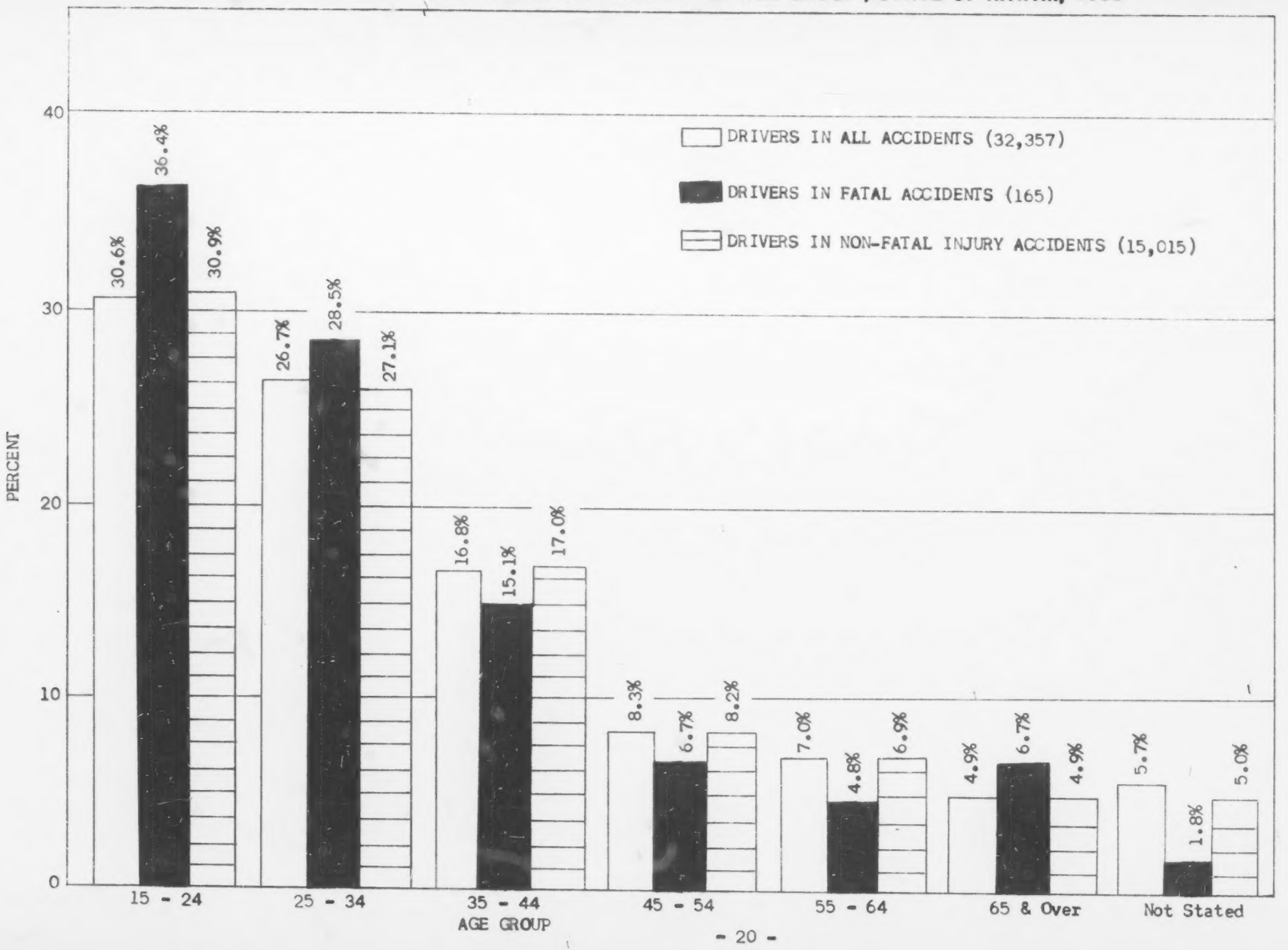


TABLE 7. DRIVER REGISTRATION AND INVOLVEMENT IN ALL ACCIDENTS, STATE OF HAWAII, 1985

AGE GROUP	DRIVERS REGISTERED*			DRIVERS IN ACCIDENTS**			INDEX		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
17 years and under	9,224	6,072	15,296	1,284	522	1,806	2.2	2.4	2.3
18 and 19	11,540	8,883	20,423	1,566	661	2,227	2.1	2.1	2.1
20 - 24	35,668	30,338	66,006	4,180	1,683	5,863	1.8	1.6	1.7
25 - 34	82,958	75,696	158,654	5,852	2,787	8,639	1.1	1.0	1.0
35 - 44	69,580	61,682	131,262	3,522	1,925	5,447	0.8	0.9	0.8
45 - 54	41,453	36,098	77,551	1,810	886	2,696	0.7	0.7	0.7
55-64	41,273	32,029	73,302	1,606	655	2,261	0.6	0.6	0.6
65 and over	34,111	17,347	51,458	1,216	376	1,592	0.6	0.6	0.6
Totals	325,807	268,145	593,952	21,036	9,495	30,531			

Driver Involvement Index = $\frac{\text{Percent Involved in Accidents}}{\text{Percent Registered}}$

* Source: Department of Data Systems, City & County of Honolulu

** Excludes drivers whose age and/or sex were not stated

TABLE 8. DRIVER REGISTRATION AND INVOLVEMENT IN FATAL ACCIDENTS, STATE OF HAWAII, 1985

AGE GROUP	DRIVERS REGISTERED*			DRIVERS IN ACCIDENTS**			INDEX		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
17 years and under	9,224	6,072	15,296	6	1	7	1.7	1.3	1.7
18 and 19	11,540	8,883	20,423	9	3	12	2.0	2.8	2.2
20 - 24	35,668	30,338	66,006	37	4	41	2.6	1.1	2.3
25 - 34	82,958	75,696	158,654	35	12	47	1.1	1.3	1.1
35 - 44	69,580	61,682	131,262	21	4	25	0.8	0.5	0.7
45 - 54	41,453	36,098	77,551	7	4	11	0.4	0.9	0.5
55 - 64	41,273	32,029	73,302	8	0	8	0.5	0.0	0.4
65 and over	34,111	17,347	51,458	6	5	11	0.4	2.3	0.8
Totals	325,807	268,145	593,952	129	33	162			

Driver Involvement Index = $\frac{\text{Percent Involved in Accidents}}{\text{Percent Registered}}$

* Source: Department of Data Systems, City & County of Honolulu

** Excludes drivers whose age and/or sex were not stated

TABLE 9. DRINKING DRIVERS INVOLVED IN ALL ACCIDENTS, 1985

AGE GROUP	STATE	OAHU	HAWAII	MAUI	KAUAI
17 years and under	34	20	8	5	1
18 and 19	143	101	26	6	10
20 - 24	419	297	65	33	24
25 - 34	506	347	97	30	32
35 - 44	210	124	65	8	13
45 - 54	84	61	9	7	7
55 - 64	48	32	9	3	4
65 and over	25	18	2	4	1
Not stated	13	12	0	0	1
Totals	1,482	1,012	281	96	93

TABLE 10. DRINKING DRIVERS INVOLVED IN FATAL ACCIDENTS, 1985

AGE GROUP	STATE	OAHU	HAWAII	MAUI	KAUAI
17 years and under	1	1	0	0	0
18 and 19	9	5	3	0	1
20 - 24	21	17	4	0	0
25 - 34	26	16	4	3	3
35 - 44	9	5	2	2	0
45 - 54	1	1	0	0	0
55 - 64	2	0	0	1	1
65 and over	0	0	0	0	0
Totals	69	45	13	6	5

Source: Motor Vehicle Safety Office

TABLE 11. TYPE OF MOTOR VEHICLES INVOLVED IN ALL ACCIDENTS, STATE OF HAWAII, 1976-1985

TYPE OF MOTOR VEHICLE	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Passenger cars	22,783	24,704	28,022	28,376	26,482	23,459	23,170	23,455	25,559	28,129
Trucks	2,407	2,678	3,344	3,685	4,082	3,805	3,651	3,690	4,307	5,226
Buses	405	392	467	596	422	398	391	374	439	509
Motorcycles and motorscooters	444	518	619	599	561	537	508	481	409	412
Other motor vehicles	54	45	80	83	70	89	74	74	81	52
Not stated	454	442	506	679	734	651	629	730	705	853
Totals	26,547	28,779	33,038	34,018	32,351	28,939	28,423	28,804	31,500	35,181

TABLE 12. TYPE OF MOTOR VEHICLES INVOLVED IN FATAL ACCIDENTS, STATE OF HAWAII, 1976-1985

TYPE OF MOTOR VEHICLE	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Passenger cars	165	158	183	193	190	138	130	145	134	124
Trucks	28	34	46	48	41	34	51	21	26	26
Buses	4	4	1	4	2	3	2	2	3	4
Motorcycles and motorscooters	6	11	23	19	10	16	14	20	16	11
Other motor vehicles	3	0	1	2	1	2	2	4	2	0
Not stated	1	0	0	3	3	0	3	3	1	0
Totals	207	207	254	269	247	193	202	195	192	165

TABLE 13. VEHICLE REGISTRATIONS AND INVOLVEMENT IN ALL ACCIDENTS, STATE OF HAWAII, 1985

TYPE OF MOTOR VEHICLE	VEHICLES REGISTERED*	VEHICLES IN ACCIDENTS	INDEX
Passenger cars	625,923	28,129	0.98
Trucks	108,007	5,226	1.06
Buses	4,189	509	2.50
Motorcycles and scooters	10,607	412	0.86
Totals	748,626	34,276	

Vehicle Involvement Index = $\frac{\text{Percent Involved in Accidents}}{\text{Percent Registered}}$

* Source: Department of Data Systems, City & County of Honolulu

Note: Excluded from total are "not stated" and "other motor vehicles".

TABLE 14. VEHICLE REGISTRATION AND INVOLVEMENT IN FATAL ACCIDENTS, STATE OF HAWAII, 1985

TYPE OF MOTOR VEHICLE	VEHICLES REGISTERED*	VEHICLES IN ACCIDENTS	INDEX
Passenger cars	625,823	124	0.90
Trucks	108,007	26	1.10
Buses	4,189	4	4.00
Motorcycles and scooters	10,607	11	4.79
Totals	748,626	165	

Vehicle Involvement Index = $\frac{\text{Percent Involved in Accidents}}{\text{Percent Registered}}$

* Source: Department of Data Systems, City & County of Honolulu

Note: Excluded from total are "not stated" and "other motor vehicles".

TABLE 15. CONTRIBUTING CIRCUMSTANCES, STATE OF HAWAII, 1985

FACTOR	ALL ACCIDENTS	FATAL ACCIDENTS	NON-FATAL INJURY ACCIDENTS
Drinking	1,482	41	886
Speed too fast	1,318	30	632
Failed to yield right of way	3,045	4	1,204
Passed stop sign	157	0	83
Disregarded traffic signal	411	2	195
Drove left of center	309	10	145
Improper overtaking	208	2	71
Followed too closely	1,331	1	565
Made improper turn	353	0	107
Other improper driving	7,787	22	3,451
Totals	16,401	112	7,339

FIG. 12. DIRECTIONAL ANALYSIS - PEDESTRIAN ACCIDENTS, STATE OF HAWAII, 1985

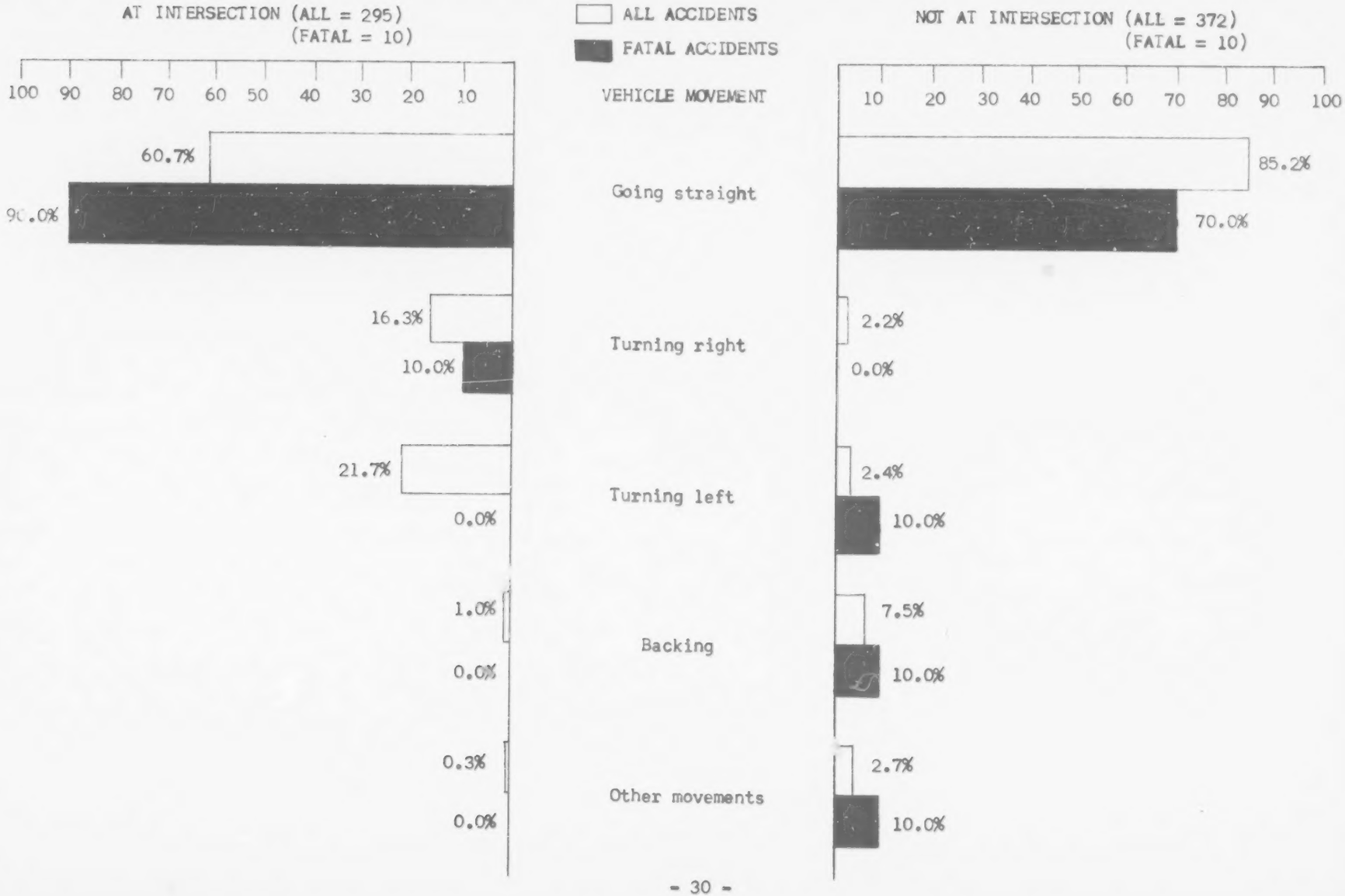


FIG. 13. DIRECTIONAL ANALYSIS - COLLISION BETWEEN TWO OR MORE VEHICLES, STATE OF HAWAII, 1985

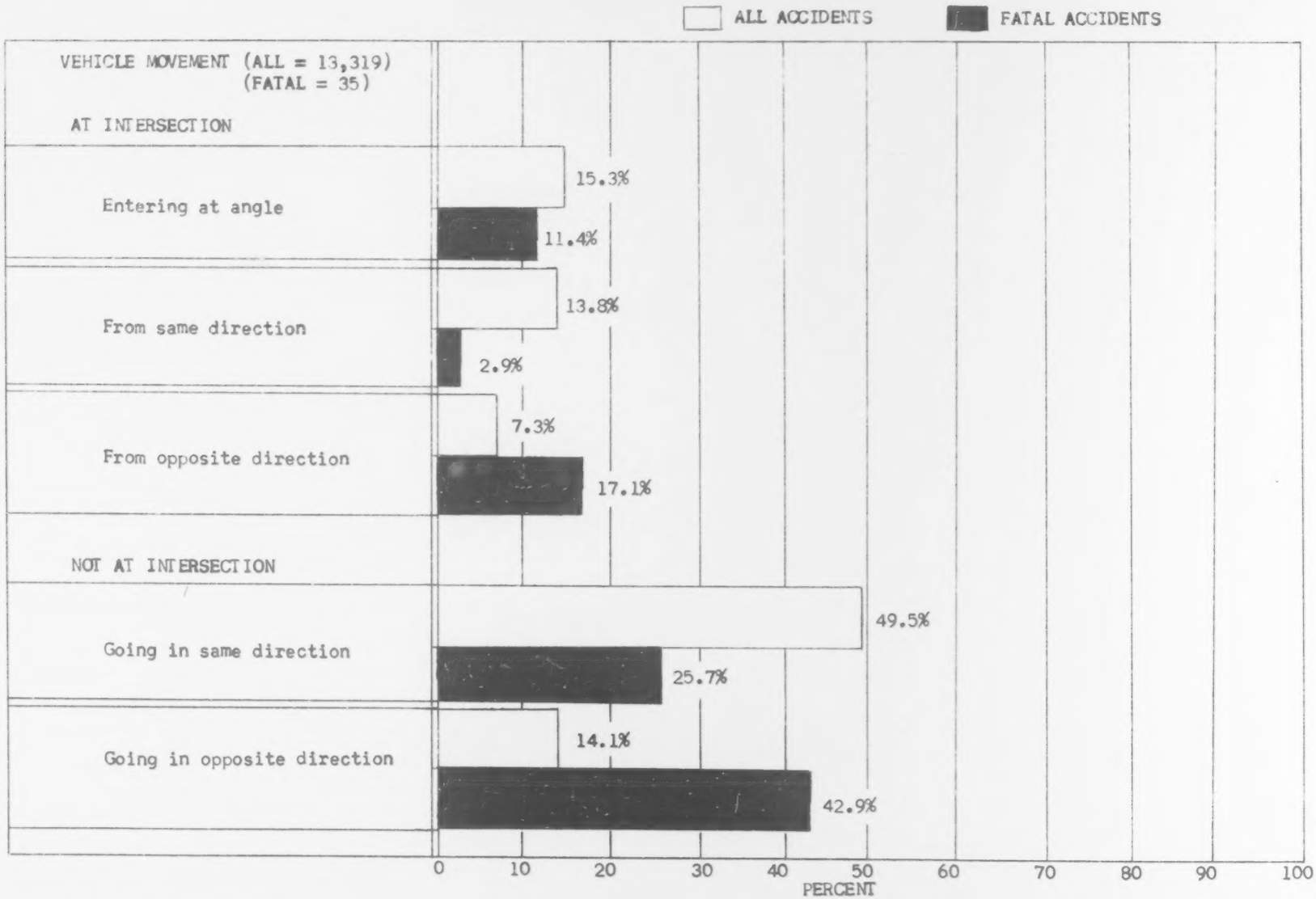


FIG. 14. DIRECTIONAL ANALYSIS - NON-COLLISION AND OTHER ACCIDENTS, STATE OF HAWAII, 1985

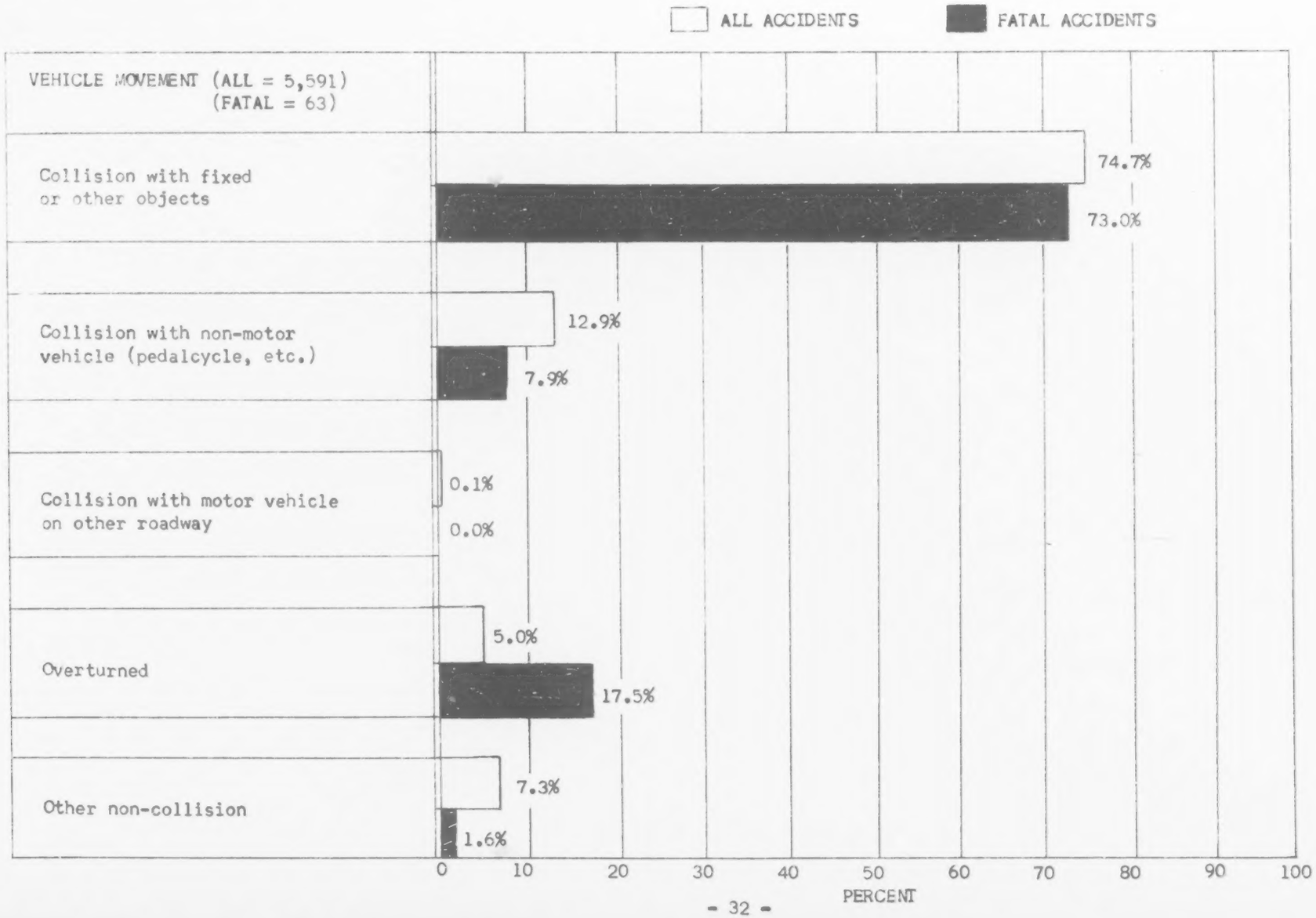


TABLE 16. PERSONS KILLED BY MONTH OF YEAR, STATE OF HAWAII, 1976-1985

MONTH	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
JANUARY	13	13	11	23	12	18	14	12	13	4
FEBRUARY	11	15	15	17	13	15	12	10	8	7
MARCH	7	14	15	17	20	8	22	13	18	14
APRIL	12	8	13	13	18	13	15	13	10	8
MAY	11	13	18	5	15	9	7	15	11	11
JUNE	20	14	29	19	17	11	8	13	12	14
JULY	16	18	21	24	15	13	13	11	6	13
AUGUST	11	11	18	16	8	11	19	10	14	12
SEPTEMBER	9	10	10	7	14	14	12	8	14	12
OCTOBER	10	7	13	12	18	10	11	11	9	12
NOVEMBER	13	12	15	23	16	14	13	15	6	8
DECEMBER	16	19	17	29	19	14	15	8	15	11
TOTALS	149	154	195	205	185	150	161	139	136	126

TABLE 17. PERSONS KILLED BY AGE GROUP, STATE OF HAWAII, 1985

AGE GROUP	TOTAL	PEDESTRIAN	PEDALCYCLIST	PASSENGER	DRIVER
4 and under	1	0	0	1	0
5 - 14	6	2	1	3	0
15 - 19	20	2	0	10	8
20 - 24	29	1	1	15	12
25 - 34	31	3	1	9	18
35 - 44	11	0	1	4	6
45 - 54	6	2	0	2	2
55 - 64	5	1	1	2	1
65 and over	17	9	0	3	5
Not stated	0	0	0	0	0
Totals	126	20	5	49	52

TABLE 18. PERSONS INJURED BY AGE GROUP, STATE OF HAWAII, 1985

AGE GROUP	TOTAL	PEDESTRIAN	PEDALCYCLIST	PASSENGER	DRIVER
4 and under	335	55	6	267	7
5 - 14	895	151	166	557	21
15 - 19	1,758	68	123	710	857
20 - 24	2,254	62	144	634	1,414
25 - 34	2,851	86	159	704	1,902
35 - 44	1,712	64	62	406	1,180
45 - 54	913	42	18	303	550
55 - 64	822	54	9	283	476
65 and over	699	80	8	313	298
Not stated	374	48	43	181	102
Totals	12,613	710	738	4,358	6,807

TABLE 19. PEDESTRIAN FATALITIES BY ACTIONS AND AGE GROUP, STATE OF HAWAII, 1985

PEDESTRIAN ACTIONS	AGE GROUP										
	TOTALS	0-4	5-14	15-19	20-24	25-34	35-44	45-54	55-64	65 & over	Not stated
Crossing at intersection	6	0	1	0	0	0	0	1	0	4	0
Crossing not at intersection	0	0	0	0	0	0	0	0	0	0	0
Getting on or off vehicle	0	0	0	0	0	0	0	0	0	0	0
Working on roadway	0	0	0	0	0	0	0	0	0	0	0
Other in roadway	12	0	1	0	1	3	0	1	1	5	0
Not in roadway	1	0	0	1	0	0	0	0	0	0	0
Not stated	1	0	0	1	0	0	0	0	0	0	0
Totals	20	0	2	2	1	3	0	2	1	9	0

TABLE 20. PEDESTRIAN INJURIES BY ACTIONS AND AGE GROUP, STATE OF HAWAII, 1985

PEDESTRIAN ACTIONS	AGE GROUP										
	TOTALS	0-4	5-14	15-19	20-24	25-34	35-44	45-54	55-64	65 & over	Not stated
Crossing at intersection	252	3	47	21	28	31	23	15	24	40	20
Crossing not at intersection	69	8	23	4	4	7	5	2	4	8	4
Getting on or off vehicle	19	0	4	2	4	3	1	2	2	0	1
Working on roadway	26	2	0	3	3	10	3	4	0	1	0
Other in roadway	272	35	67	33	19	28	21	12	17	22	18
Not in roadway	49	6	5	3	2	5	7	6	7	4	4
Not stated	23	1	5	2	2	2	4	1	0	5	1
Totals	710	55	151	68	62	86	64	42	54	80	48

DOT-H 2019 (9/86)